

Comparisons of Job Characteristics

Focus Occupation: [Electrical and Electronics Repairers, Powerhouse, Substation, and Relay \(49-2095\)](#)

Associated Occupation: [Electrical and Electronic Engineering Technicians \(17-3023\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 75

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	15.8	12.2	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	12.4	9.3	<<	Extensive education and/or training may be required
Mechanical	6.8	11.6	17.1	>>	Current knowledge level is likely more than sufficient
Design	5.2	10.2	13.2	>>	Current knowledge level is likely more than sufficient
Telecommunications	3.9	8.4	10.0	>	Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 74

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Quality Control Analysis	5.9	8.8	10.2	>	Skill level is likely sufficient
Troubleshooting	4.5	8.8	10.7	>	Skill level is likely sufficient
Repairing	3.4	8.0	11.1	>>	Skill level is likely more than sufficient
Equipment Maintenance	3.5	7.9	11.4	>>	Skill level is likely more than sufficient
Equipment Selection	3.3	7.0	5.6	<	A higher skill level may be required
Technology Design	2.6	4.9	2.6	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 93			
Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	12.2	12.5	0	Current ability level may be sufficient
Problem Sensitivity	11.1	12.0	10.7	<	Some improvement in abilities may be required
Written Comprehension	11.0	12.0	10.6	<	Some improvement in abilities may be required
Near Vision	11.1	11.6	11.8	0	Current ability level may be sufficient
Oral Expression	12.4	11.6	11.8	0	Current ability level may be sufficient
Deductive Reasoning	10.6	11.1	10.0	<	Some improvement in abilities may be required
Information Ordering	9.9	11.0	10.7	0	Current ability level may be sufficient
Written Expression	9.8	10.7	9.2	<	Some improvement in abilities may be required
Finger Dexterity	7.6	9.9	9.8	0	Current ability level may be sufficient
Visualization	7.5	9.8	10.1	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	9.6	9.3	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 71
Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)		
Work Activities	Exclusivity of Activity	
Analyze test data	64	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install/connect electrical equipment to power circuit	57	
Maintain or repair work tools or equipment	81	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	
Repair or replace electrical wiring, circuits, fixtures, or equipment	49	
Solder electrical or electronic connections or components	55	
Understand service or repair manuals	40	
Understand technical operating, service or repair manuals	6	

Use electrical or electronic test devices or equipment	40
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)
Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.